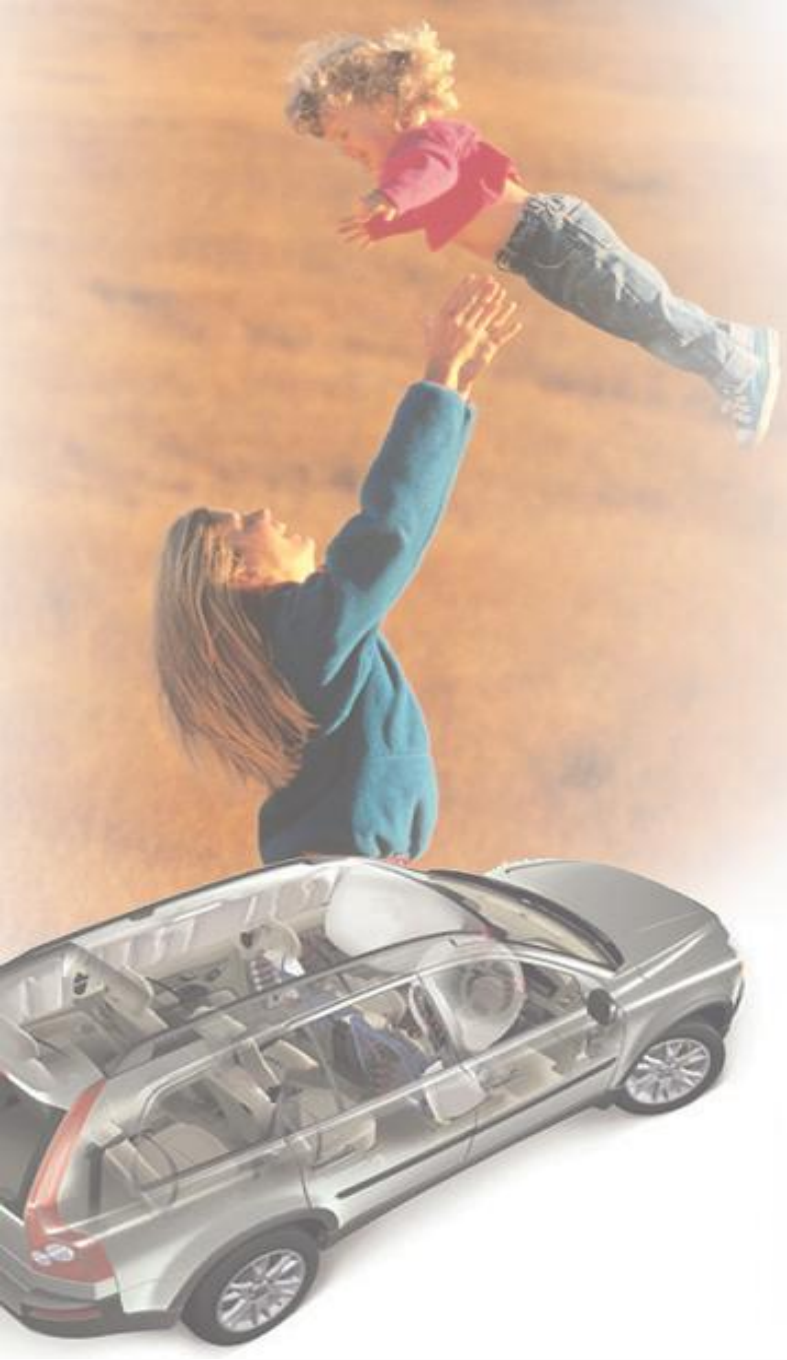


Autoliv

Safety For Life

Clean Utah Luncheon

Monday, November 5, 2007

Autoliv

Autoliv History

Autoliv Inc.

1997 Merger

Morton Automotive Safety Products

Beginning in the late 1960's (Thiokol, later Morton International) pioneered airbag inflation technology and products (based on solid rocket motor fuel technology)

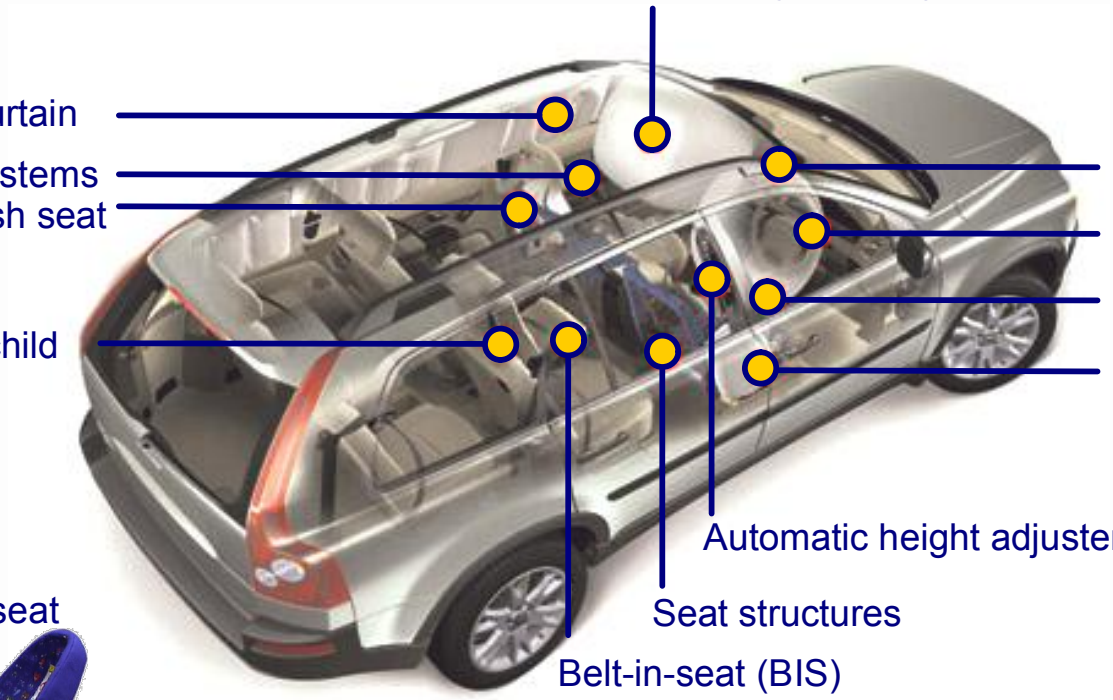
Autoliv AB

Beginning in the early 1950's Autoliv AB pioneered seatbelt technology and products

Autoliv

“One-Stop-Shop” for Auto Safety

Integrated Safety Systems



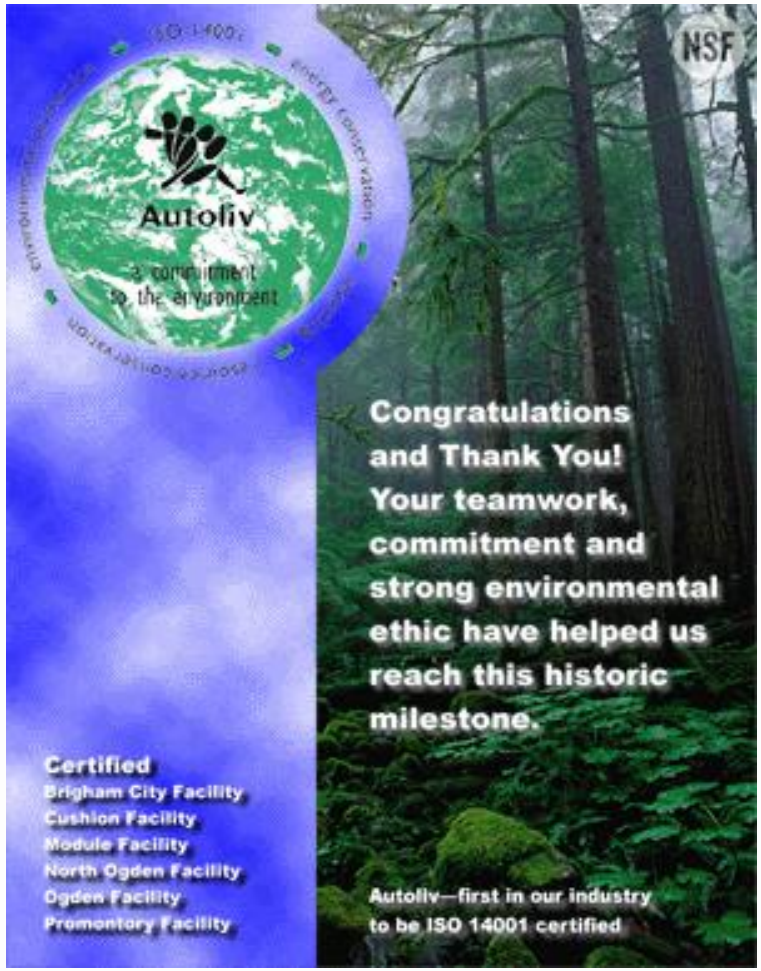
Isofix child seat

Autoliv

OTC

Ogden Technical Center
Utah, USA

ISO 14001 Certified
October, 1998



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Autoliv
Driving For A Cleaner Tomorrow.
CLEAN UTAH PARTNER
POWERED BY NATURAL GAS

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Greenhouse Gas Protocol Initiative

www.ghgprotocol.org

Multi-stakeholder partnership

- Businesses
- Non-governmental organizations (NGOs)
- Governments
- World Resources Institute (WRI)
- World Business Council for Sustainable Development (WBCSD)

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Worksheet 1-Standard Method

Consumption of purchased electricity, heat, and/or steam using the emissions factor based methodology

Cell color code:

User entry:

Auto calculated value:

Note: Grey colored cells are protected to prevent formulas being inadvertently deleted. To unprotect the worksheet, select Protection from the Tools menu followed by Unprotect Sheet.

* Please ensure that emission factor units in column B are consistant with activity data units in column A.

	Step 1	Step 2	Step 3
	A*	B*	C
	Activity Data: Electricity, Heat, and/or Steam Purchase	CO_2 emission factor	Indirect CO_2 emissions in metric tons
			C = A * B / 1,000,000
	kWh	grams CO_2 / kWh	metric tons CO_2
Facility / source description			
Ogden / Rocky Mountain Power	6586476.00	386.60	2,546.33
Facility / source 2			0.00
Facility / source 3			0.00
Facility / source 4			0.00
Facility / source 5			0.00
Facility / source 6			0.00
Facility / source 7			0.00
Facility / source 8			0.00
Facility / source 9			0.00
Facility / source 10			0.00

Step 4: Sum CO_2 emissions (in metric tons): 2,546.33

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Direct CO_2 Emissions from Fuel Use in Facilities

Color Key:

Standard label
User entry cells
Automatic calculation

Note: Grey colored cells are protected to prevent formulas being inadvertently deleted. To unprotect the worksheet, select Protection from the Tools menu followed by Unprotect Sheet. No password is required.

* Please ensure that emission factor units in column D are consistent with activity data units in column B.

Year: 2006

		A	B*	C	D*	E	F
Source description	Fuel type	Quantity of fuel consumed	Unit	CO_2 emission factor	kg CO_2 / unit	CO_2 emissions in kg	CO_2 emissions in metric tons
						E=AxC	
Furnaces	Natural Gas	5555.60	1000 ft^3	120.59	5.47	669,949.8	669.95
						0.0	0.00
						0.0	0.00
						0.0	0.00
						0.0	0.00
						0.0	0.00

Step 4: Sum CO_2 emissions: 669.95

Note: You can find emissions factors on the EFs_Fuels page.

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Sample of Autoliv 2006 GHG Emissions

	GHG EMISSIONS 2006					
Facility	**Scope 1**	Natural Gas	**Scope 2**	Electricity	**Scope 3**	**Total**
	Natural Gas	EF	**Electricity**	EF		**(metric tons)**
Auburn Hills (ATC)	471.48	120.59	3,323.17	740.3		**3,795**
Brigham City (IBC)	820.16	120.59	16,987.41	386.6		**17,808**
Columbia City (AWC)	1,265.45	120.59	5,121.74	892.0		**6,387**
Madisonville (ABK)	1,998.86	120.59	3,988.20	892.0		**5,987**
Module (AOA)	836.65	120.59	6,333.67	386.6		**7,170**
Ogden (OTC)	669.95	120.59	2,546.33	386.6		**3,216**
Promontory (PRO)	11,053.76	120.59	7,595.92	386.6		**18,650**
AUTOLIV-US TOTAL	17,116.31		45,896.44			**63,013**

all emissions are in units of metric tons

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Autoliv Operational Indicator 11 (Name)

Month: _____

Year: _____

OPI 11A. CO_2 Emissions Generated by Heating with Fossil Fuels

Conversion Factors:

1 Decatherm = 1,000 ft^3

1 kg = 2.2046 lb

1 Metric ton = 2,204.6 pounds

	A	B	C	D	E	F	G
Fuel Type	**Quantity of fuel consumed**	**Unit**	**CO_2 Emission Factor**	**Unit**	**lbs CO_2**	**kg CO_2**	**Ton CO_2 (metric)**
					E = A x C	F = E x (1/2.2046)	G = E x (1/2,204.6)
Natural Gas		1,000 ft^3		lbs CO_2 / 1000 ft^3	0	0.0	**0.0**

OPI 11B. CO2 Emissions generated by Purchased Electricity

	A	B	C	D	E	F	G
Source Description	**Quantity of electricity consumed**	**Unit**	**CO_2 Emission Factor**	**Unit**	**lbs CO_2**	**kg CO_2**	**Ton CO_2 (metric)**
					E = A x C	F = E x (1/2.2046)	G = E x (1/2,204.6)
		kWh	0.852	lbs CO_2 / kWh	0	0.0	**0.0**

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